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See page 6

1600

#16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/711,724B

DATE: 04/24/2003

TIME: 07:04:43

Input Set : N:\efs\09711724\09711724A\HMSU-P14-006SubstituteSequence.txt  
Output Set: N:\CRF4\04242003\I711724B.raw

5 <110> APPLICANT: Ingham et al.  
7 <120> TITLE OF INVENTION: SCREENING ASSAYS FOR HEDGEHOG AGONISTS AND ANTAGONISTS  
9 <130> FILE REFERENCE: HMSU-P14-006  
11 <140> CURRENT APPLICATION NUMBER: 09/711724B  
12 <141> CURRENT FILING DATE: 2000-11-13  
14 <150> PRIOR APPLICATION NUMBER: 08/674509  
15 <151> PRIOR FILING DATE: 1996-07-07  
17 <160> NUMBER OF SEQ ID NOS: 55  
19 <170> SOFTWARE: PatentIn version 3.1  
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83 gggccagcgg aggggagggg aacaaggggg tcggagcgct tccgggacct cgtaaccaac 240
85 tacaaccccg acataatctt caaggatgag gagaacagcg gcgcagaccg cctgatgaca 300
87 gagcgttgca aagagcgggt gaacgctcta gccatcgcgg tgatgaacat gtggcccggg 360
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91 cactacgaag gcctgacctt ggacatcacc acgtctgacc gtgaccgtaa taagtatggt 480
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PATENT APPLICATION: US/09/711,724B

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Input Set : N:\efs\09711724\09711724A\HMSU-P14-006SubstituteSequence.txt  
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374 20 25 30
377 Ile Gly Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys
378 35 40 45
381 Gln Phe Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg
382 50 55 60
385 Tyr Glu Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr
386 65 70 75 80
389 Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly
390 85 90 95
393 Ala Asp Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu
394 100 105 110
397 Ala Ile Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr
398 115 120 125
401 Glu Gly Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr
402 130 135 140
405 Glu Gly Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys
406 145 150 155 160
409 Tyr Gly Met Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val
410 165 170 175
413 Tyr Tyr Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn
414 180 185 190
417 Ser Val Ala Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val
418 195 200 205
421 His Leu Glu His Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly
422 210 215 220
425 Asp Arg Val Leu Ala Ala Asp Ala Asp Gly Arg Leu Leu Tyr Ser Asp
426 225 230 235 240
429 Phe Leu Thr Phe Leu Asp Arg Met Asp Ser Ser Arg Lys Leu Phe Tyr
430 245 250 255
433 Val Ile Glu Thr Arg Gln Pro Arg Ala Arg Leu Leu Leu Thr Ala Ala
434 260 265 270
437 His Leu Leu Phe Val Ala Pro Gln His Asn Gln Ser Glu Ala Thr Gly
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RAW SEQUENCE LISTING ERROR SUMMARY  
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Input Set : N:\efs\09711724\09711724A\HMSU-P14-006SubstituteSequence.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:18; N Pos. 15,32,36  
Seq#:19; N Pos. 24,27  
Seq#:20; N Pos. 13,16,19,23,27  
Seq#:30; N Pos. 6,23,27  
Seq#:31; N Pos. 4,7,10,14,19,22  
Seq#:38; N Pos. 20,23  
Seq#:39; N Pos. 11,26  
Seq#:40; Xaa Pos. 7,9,44,85,93,98,112,132,137,139,181,183,185,186,189,191  
Seq#:40; Xaa Pos. 196,200,206,207,209,211,212,216,217,219  
Seq#:41; Xaa Pos. 7,8,9,12,13,14,17,19,22,27,29,30,31,33,40,41,44,45,46,48  
Seq#:41; Xaa Pos. 53,54,71,79,83,84,85,87,95,100,107,114,115,116,125,134  
Seq#:41; Xaa Pos. 135,139,141,157,158,160,162,166,167

## VERIFICATION SUMMARY

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L:1190 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:1216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:1232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:1347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:1363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:1617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:1762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
M:341 Repeated in SeqNo=40  
L:2040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
M:341 Repeated in SeqNo=41